




Luis Angel Guerrero Hoyos

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About Me

I am a Sc.M student in the CEE Department at the University of Washington. I hold a Sc.B degree in Geological Engineering from the Universidad Nacional de Colombia, with 5+ years of industry experience. Passionate about geospatial data, GIS, and remote sensing, I excel in both autonomous and team-based learning environments. With outstanding interpersonal, written, and communication skills, I am adaptable to change and committed to continuous improvement. My creative and innovative mindset is focused on problem-solving, particularly within the realms of geospatial analysis, data engineering, geophysics, geotechnical engineering, and risk management. In addition to my academic and professional pursuits, I have a love for football, both as a player and a fan.

Experience

University of Washington

Research Assistant and Scientist

August 2023 - Present

- Investigating the geospatial relationships between earthquake-induced landslides and their reactivations.
- Interaction with geospatial data types, both rasters (GeoTIFF and satellite imagery) and vectors (GeoJSON, geopackage, shapefiles).

Terracon Consultants Inc

Geotechnical Intern

June 2024 - September 2024

- Site reconnaissance, project scoping, budgeting, logging, geotechnical report preparation.
- Geotechnical software: gINT, GeoStudio, Rocscience, Site response and liquefaction analysis(cLiq, LiqSVs), Plaxis.

Hexagon Geospatial

Geotechnical Monitoring Analyst

July 2021 - August 2023

- InSAR data analysis and management from ground-based georadars.
- Real time geotechnical monitoring of pit slopes and tailing dams using ground-based interferometric radars, robotic total stations and GNSS.
- Technical support to the customer regarding monitoring, equipment, system, and software.
- Daily, weekly, and monthly report instable areas to the customer after the analysis for decision-making.

Geological Engineer

January 2019 - July 2021

- Management of GIS databases of drilling samples.
- Drilling samples data entry.
- Plan, execute and supervise drilling campaigns.



Universidad Nacional de Colombia

Research Assistant and Scientist

August 2017 - March 2018

- Research assistant for photointerpretation, geotechnical mapping and statistical modelling validation in the project "Hazard basic studies of landslides, debris flows and floods occurrence for land management at Aburrá Valley, Antioquia, Colombia".
- Propose an early warning system for the flash flows occurrence using the RTI methodology.

Education

Master of Science in Civil Engineering

University of Washington

May 2025

Bachelor of Science in Geological Engineering

Universidad Nacional de Colombia

May 2019

Skills

- **Programming Languages:** Python, Matlab
- **Frameworks & Libraries:** Geopandas, Rasterio, Xarray, Gdal
- **Tools:** Git, QGIS, ArcGIS, InSAR, Pix4D, CloudCompare,
- **Databases:** SQL, PowerBI
- **Soft Skills:** Communication, Leadership, Adaptability, Innovation

Awards & Certifications

- CEE Departmental Graduate Fellowship - University of Washington, September 2023
- InSAR and RAR Radar Monitoring - University of Arizona, December 2020

Languages

- English (Fluent)
- Spanish (Native)